Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently amended) A computer-implemented character validation method comprising the steps 1. of:

retrieving a data value from a character stream; and

determining a validity of a character represented by said data value in response to by locating a member of a data structure, said member having a direct correspondence to said data value, wherein said validity is determined in response to according to a logical combination of a plurality of status values in said member of said data structure.

- (Currently amended) The computer-implemented method of claim 1 wherein said data structure 2. comprises an array and further comprising the step of indexing into said data structure array using said data value, wherein [[said]] a member of said data structure array corresponding to said data value is pointed to in response to said indexing step.
- (Cancelled) 3.
- (Previously presented) The computer-implemented method of claim 1 wherein, if the logical 4. combination corresponds to a logically "TRUE" value, said data value represents a valid character.
- (Previously presented) The computer-implemented method of claim 1 further comprising the step 5. of, if each character in said character stream is valid, applying a predetermined set of syntactic rules to byte patterns comprising said character stream.
- (Previously presented) The computer-implemented method of claim 1 further comprising the step 6. of generating said data structure.
- 7. (Previously presented) The computer-implemented method of claim 5 wherein said character stream comprises characters in accordance with a specification for an extensible markup language, and wherein said status values are set in accordance with a set of valid characters defined in said specification.

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- 8. (Previously presented) The computer-implemented method of claim 7 wherein the extensible markup language comprises XML and wherein said syntactic rules include rules in accordance with XML.
- 9. (Currently amended) A data processing system comprising:

 first circuitry operable for retrieving a data value from a character stream; and
 second circuitry operable for determining a validity of a character represented by said data value
 in response to by locating a member of a data structure, said member having a direct correspondence to
 said data value, wherein said validity is determined in response to according to a logical combination of a
 plurality of status values in said member of said data structure.
- 10. (Currently amended) The system of claim 9 wherein said data structure comprises an array and further comprising circuitry operable for indexing into said data structure array using said data value, wherein [[said]] a member of said data structure array corresponding to said data value is pointed to as part of the operation of said second circuitry.
- 11. (Cancelled)
- 12. (Original) The system of claim 9 wherein, if said logical combination corresponds to a logically "TRUB" value, said data value represents a valid character.
- 13. (Previously presented) The system of claim 9 further comprising third circuitry operable for, if each character in said character stream is valid, applying a predetermined set of syntactic rules to byte patterns comprising said character stream.
- 14. (Previously presented) The system of claim 9 further comprising fourth circuitry operable for generating said data structure.
- 15. (Original) The system of claim 13 wherein said character stream comprises characters in accordance with a specification for an extensible markup language, and wherein said status values are set in accordance with a set of valid characters defined in said specification.
- 16. (Original) The system of claim 15 wherein the extensible markup language comprises XML and wherein said syntactic rules include rules in accordance XML.

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(Currently amended) A computer program product embodied in a machine-readable storage 17. medium including programming for validation, the programming comprising a set of instructions for performing the steps of:

retrieving a data value from a character stream;

determining a validity of a character represented by said data value in response to by locating a member of a data structure, said member having a direct correspondence to said data value, wherein said validity is determined in response to according to a logical combination of a plurality of status values in said member of said data structure.

- (Currently amended) The program product of claim 17 wherein said data structure comprises an 18. array and further comprising instructions for performing the step of indexing into said data structure array using said data value, wherein [[said]] a member of said data structure array corresponding to said data value is pointed to in response to said indexing step.
- 19. (Cancelled)
- (Original) The program product of claim 17 wherein, if the logical combination corresponds to a 20. logically "TRUE" value, said data value represents a valid character.
- (Original) The program product of claim 17 further comprising instructions for performing the 21. step of, if each character in said stream is valid, applying a predetermined set of syntatic rules to byte patterns comprising said character stream.
- (Original) The program product of claim 17 further comprising the step of generating said data 22. structure.
- (Original) The program product of claim 21 wherein said character stream comprises characters 23. in accordance with a specification for an extensible markup language, and wherein said status values are set in accordance with a set of valid characters defined in said specification.
- 24. (Original) The program product of claim 23 wherein the extensible markup language comprises XML and wherein said syntactic rules include rules in accordance with XML.

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(Currently amended) A character validation method comprising the steps of: 25. retrieving a data value from a character stream;

determining a validity of a character represented by said data value in response to by locating a member of a data structure, said member having a direct correspondence to said data value, wherein said validity is determined in response to according to a logical combination of a plurality of status values in said member of said data structure, wherein said character stream comprises characters in accordance with a specification for an extensible markup language, and wherein a first status value of said plurality of status values are set in accordance with a set of valid characters defined in said specification <u>indi</u>cates whether said data value represents a valid character having a first attribute corresponding to said first status value and a second status value of said plurality of status values indicates whether said data value represents a valid character having a second attribute corresponding to said second status value; and

if each character in said stream is valid, applying a predetermined set of syntactic rules to byte patterns comprising said character stream in accordance with said extensible markup language.

- (Currently amended) The method of claim 25 wherein said character stream comprises a message 26. packaged in accordance with a predetermined information exchange protocol an extensible markup language, said first status value indicates whether said data value is a valid base character, said second status value indicates whether said data value is a valid digit character, and a third status value indicates whether said data value is a valid extender character.
- (New) The computer-implemented character validation method of claim 1 wherein said character 27. stream comprises characters in accordance with a specification for an extensible markup language and within said plurality of status values, a first status value indicates whether said data value represents a valid base character, a second status value indicates whether said data value represents a valid digit character, and a third status value indicates whether said data value is a valid extender character.
- (New) The data processing system of claim 9 wherein said character stream comprises characters 28. in accordance with a specification for an extensible markup language and within said plurality of status values, a first status value indicates whether said data value represents a valid base character, a second status value indicates whether said data value represents a valid digit character, and a third status value indicates whether said data value is a valid extender character.
- (New) The computer program product of claim 17 wherein said character stream comprises 29. characters in accordance with a specification for an extensible markup language and within said plurality

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PAGE 7/14 * RCVD AT 4/27/2006 10:44:33 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/39 * DNIS:2738300 * CSID:972 385 7766 * DURATION (mm-ss):04-02

of status values, a first status value indicates whether said data value represents a valid base character, a second status value indicates whether said data value represents a valid digit character, and a third status value indicates whether said data value is a valid extender character.